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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,865	11/02/2001	Anuj Batra	TI-32769	7454	
75	90 06/01/2005		EXAM	INER	
Dennis Moore	:		LIU, SHU	JWANG	
Texas Instrumen	nts Incorporated				
M/S 3999	•	ART UNIT	PAPER NUMBER		
P.O. Box 655474			2634		
Dallas, TX 75265			DATE MAILED: 06/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	- 1 4 19 49	- N	1.0 (1.0-4/2)			
	Application	in No.	Applicant(s)			
	10/003,86	5	BATRA ET AL.			
Office Action Summary	Examiner		Art Unit			
	Shuwang l	∟iu	2634			
The MAILING DATE of this community Period for Reply	nication appears on the	cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this com - If the period for reply specified above is less than thirty (- If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for repl Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no eve munication. 30) days, a reply within the statu- tatutory period will apply and will y will, by statute, cause the appl	ent, however, may a reply be tin utory minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) fil	ed on					
2a) This action is FINAL .						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	·					
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the 4a) Of the above claim(s) is/s 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>11-13</u> is/are rejected. 7) ⊠ Claim(s) <u>1-10 and 14-20</u> is/are objection restricts.	are withdrawn from con					
Application Papers						
9) The specification is objected to by the specification is objected to by the specific speci	er 2001 is/are: a) ☐ acception to the drawing(s) but the correction is require	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internati * See the attached detailed Office acti	y documents have bee y documents have bee s of the priority docume onal Bureau (PCT Rule	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (3) Information Disclosure Statement(s) (PTO-1449 o	PTO-948)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)			
Paper No(s)/Mail Date	F U/35/00}	6) Other:				

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DETAILED ACTION

Drawings

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because informal drawing were filed. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Objections

- 2. Claims 1-20 are objected to because of the following informalities: .
 - (1) In claim 1, line 8, change "a" to -the- -:
 - (2) In claim 2, lines 1 and 2, change "a" to --the--, respectively:
 - (3) In claim 3, line 1, change "a" after "from" to -the- -;
 - (4) In claim 3, line 2, change "a" to -the- -;
 - (5) In claim 4, line 2, change each of "the number" to -a number- -, respectively;
 - (6) In claim 4, line 3, change "a" to -the- -:
 - (7) In claim 4, line 4, change "the" to -a--;
 - (8) In claim 4, lines 6-7, change "a number" to the number respectively;
 - (9) In claim 4, line 7, change "a" to -the- -;

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- (10) In claim 7, line 1, change "channels" to -channel- -;
- (11) In claim 8, line 1, change "channels" to -channel- -;
- (12) In claim 9, line 5-6, change "a" to --the--, respectively-;
- (13) In claim 14, line 1, change "the" to -a- -;
- (14) In claim 14, line 2, change each of "to a" to -to the- -, respectively;
- (15) In claim 14, line 3, insert -to- after "good window";
- (16) In claim 14, line 4, insert "a number of" before "the good" and "the bad", respectively and insert -frequency- before band";
- (17) In claim 15, line 2, change "a" to -the- -;
- (18) In claim 17, line 5, insert "a number of" before "the good" and "the bad", respectively;
- (19) In claim 17, line 10, insert -the- before "good" and bad", respectively;
- (20) In claim 17, lines 12 and 16, change "a" to --the--, respectively;
- (21) In claim 19, line 2, change "a" to --the--;
- (22) In claim 20, lines 3-4, change all of "the" to -a- -except for "the frequency";
- (23) In claim 20, line 5, delete "first" and "second";
- (24) In claim 20, line 6, change "the ratio" to -- a ratio--; and
- (25) In claim 20, lines 16-17, change all of "a" to -the- except for "a frequency".

 Appropriate correction is required.

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites the limitation "the good channel" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 12 recites the limitation "the bad channel" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Regarding claim 13, it is unclear whether "each window" refers to "good window", "bad window", or "good window" and "bad window".

Allowable Subject Matter

- 5. Claims 1-10 and 14-20 would be allowable if rewritten to overcome the objections, set forth in this Office action.
- 6. Claims 11-13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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7. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to teach and suggest a method of intelligent frequency hopping comprising determining a desired frequency type based on a frequency sequence, using an original hopping sequence to sample an original frequency in the frequency band, and selecting the original frequency as an operating frequency when the original frequency is the desired frequency type.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is 571 272-3036. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shuwang Liu Primary Examiner Art Unit 2634

May 27, 2005